

Based on **stability** and **trust**
A total IT service provider that delivering optimal solutions

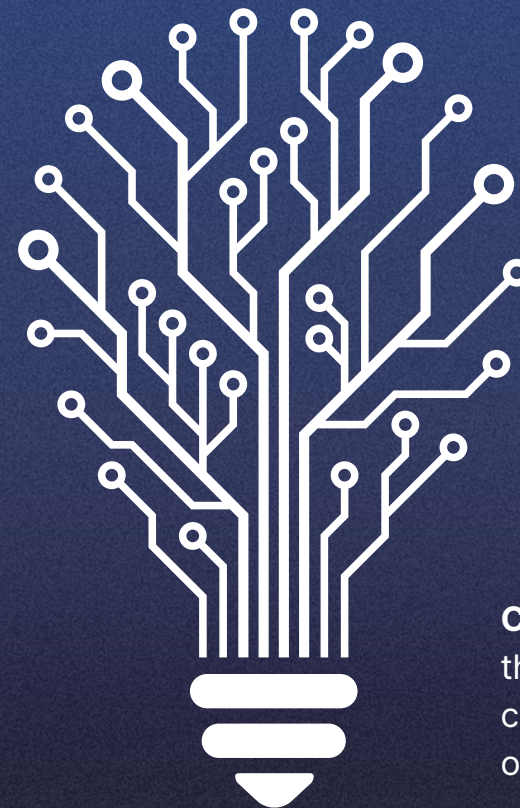
Providing Ultimate Solution

computer**MATE** Making Another Technology Evolution
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COMPUTERMATE is a **total IT service provider** that delivering **AI and smart factory solutions** customized to customer needs, creating an optimal digital environment.

Providing The Ultimate Solution

COMPUTERMATE Co., Ltd. is a total IT service provider delivering Customized Business Solutions specialized for diverse industries based on Cutting-edge IT technology. We accurately identify our clients' needs and design optimized IT strategies to realize them, supporting digital transformation and enhancing competitiveness. Additionally, by implementing AI solutions and smart factories, we provide smart solutions that elevate productivity, efficiency, and quality to new levels. Through these technologies, we assist in driving business innovation and establishing a stable digital environment for long-term growth. By implementing AI technology, we deliver data-driven intelligence and automation and create new value for our clients' businesses. We maximize operational efficiency through AI-based predictive analytics and real-time data processing technologies, offering customized AI and MES solutions to enhance competitiveness in manufacturing and other industries. This enables us to support our clients in achieving continuous growth in a rapidly changing market environment.

Since our founding in 1992, we have been accelerating digital transformation through customized technical support and consulting that meet clients' unique needs. With a dedicated technology research center and continuous investment in R&D, we drive digital innovation to foster long-term growth and position ourselves as a trusted partner for our clients.

Company Overview

CEO	Sangin Seo, Sungho Kim	Founding date	Originally Established in 1992 (Incorporated in 2007)
Capital	100 million KRW	Credit rating	BB+ (NICE Information Service)
Patent	<div>· Method for Managing the Production of Rubber Products</div> <div>· Cloud-based Smart Factory Operation System for Automotive Parts Industry using Big Data Analysis</div> <div>· Electronic Devices and Control Methods</div>	GS Certification	<div>· Enterprise Resource Planning System v4.0 MATE-ERP v4.0</div> <div>· Software for Rubber Mixing Process Control</div> <div>· MATE-ERP C#.NET v1.0</div> <div>· MATE-MES.NET v3.0</div>

Business Area

IT Solution Development and Consulting

MATE Series

· MES

· MES for Cloud

· ERP

· E-HR

· SCM

· Groupware

· QMS

· POP

· WMS

· Initial-In-Process-Final Product Management System

· Compounding Management System

· Biztime (Time card management solution)

AI Series

· ADUP (Anomaly Detection Universal Platform)

· AD (Anomaly Detection)

· OPC (Optimal Process Conditions)

· QP (Quality Prediction)

· TMS (Test Management System)

· CPS (Cyber-Physical System)

Data Analysis and Management

· BI (Business Intelligence)

· RPA

· DA (Data Acquisition)

IT Infrastructure

Server Supply and Maintenance

On-site Equipment Supply and Maintenance

· Barcodes, Scanners, Kiosks, etc.

Cloud Services

· AWS, AZURE, NAVER, KT, etc.

Network and Data Collection Installation

IoT Installation and Maintenance

IT Services

IT Planning and Diagnostic Consulting

· PI (ISP)

· Quick Assessment

Customer Support Services

· System Maintenance

· Infrastructure Maintenance (H/W, N/W, Various Equipment)

Training Services

· Free Training for Maintenance Customers

· IT System and Technical Training (Paid Service)

Smart Factory and DX(Digital Transformation)

Smart Factory Consulting

Smart Factory Expansion Program

Data Voucher Program

AI-Powered Data Infrastructure Development Program

Cloud Service Usage Support Program

AI Voucher Program

Metaverse Factory Program

DX (Digital Transformation) Consulting

AI-Manufacturing Convergence Consulting

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MATE-AI for ADUP (Anomaly Detection Universal Platform)

Product Overview

Mate-AI for ADUP (Anomaly Detection Universal Platform) resolves atypical defect detection and false defect issues in rule-based vision inspection and can be adapted for other industries and product types through generative AI techniques and a universal platform, providing AI reliability and efficiency.

Key Features

Dataset Construction

- Generative AI-based Augmentation (GAN)
- Makes Use of Transform
- Using Data Annotation in Test Dataset

Automated Data Collection

- Automated Data Collection Using TCP/IP
- Logs are Stored in the AI Server to Retransmit Failure Data

Model Management

- Periodically Generates and Releases New Models by Retraining
- Push the Best Model after Retraining

Profile Management

- Profile Management System for Universal Diffusion
- Inspection Information and Item Management for the Universal Diffusion of Other Parts

Image Processing

- Image Enhancement Using Filters such as Homomorphic, Histogram Equalization, etc.
- Improves Accuracy by Image Processing for Anomaly Detection

Transfer Learning

- Generates Models in Consumer Demand for Customization
- Verifies and Generates New Models Using Pre-trained Model(Other Parts)

Visualization

- Defect Detection Using Visualization
- Visualization of Model Performance
- Monitoring Inspection

Screen Examples

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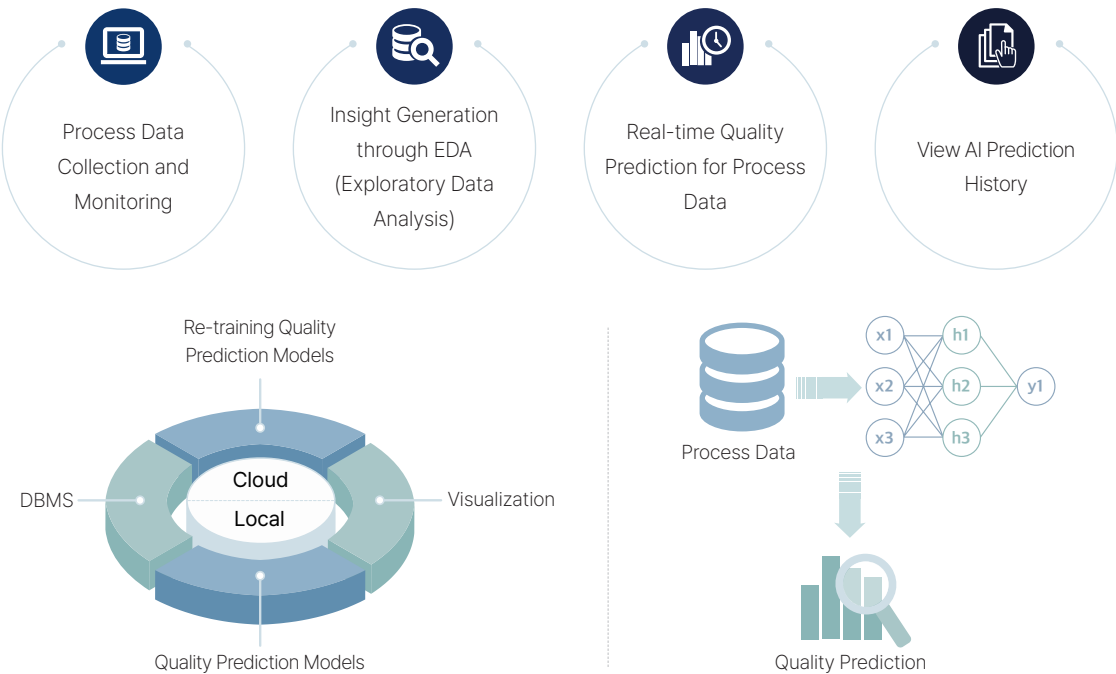
MATE-AI for QP (AI Solution for Quality Prediction)



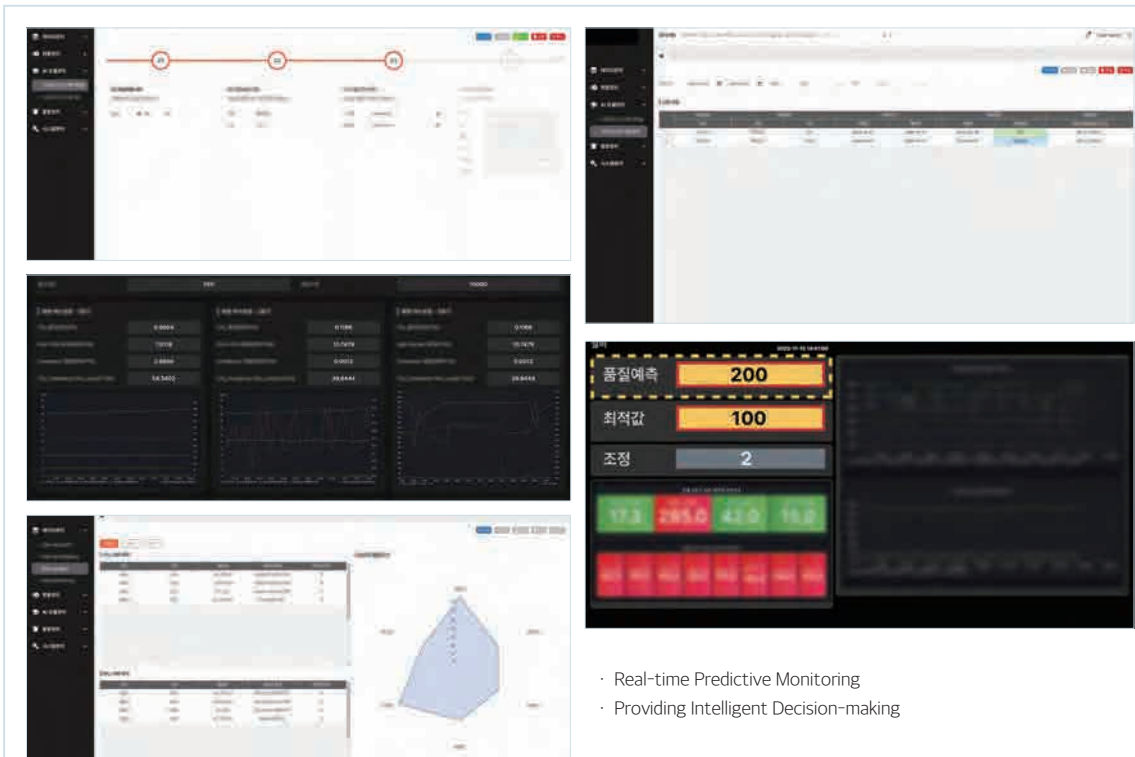
Product Overview

MATE-AI for QP(Quality Prediction) offers AI-driven quality prediction services leveraging process data. As a quality prediction AI solution, the AI model trained on process data delivers real-time quality predictions for active processes. It also features AI model training management capabilities to continuously improve the quality prediction AI solution.

Key Features



Screen Examples



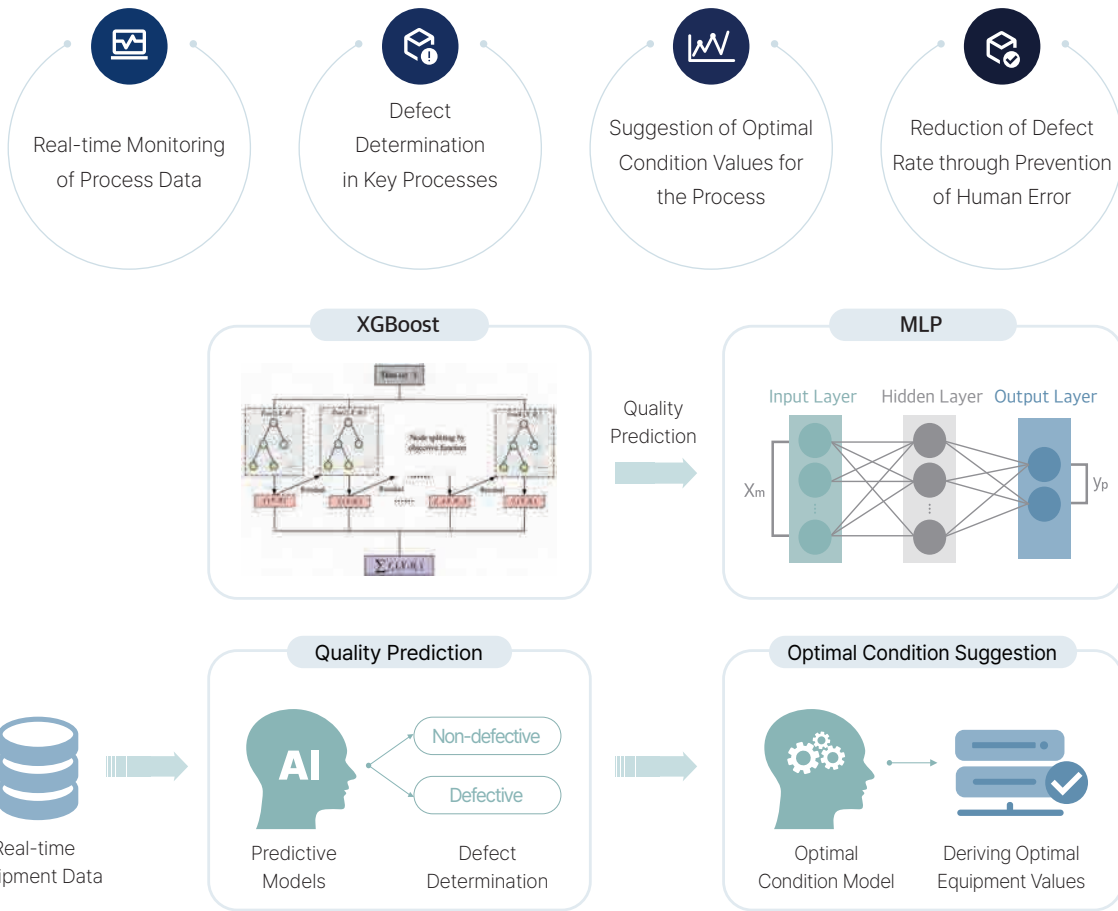
MATE-AI for OPC (AI Solution for Optimal Process Conditions)



Product Overview

MATE-AI for OPC (Optimal Process Conditions) is an AI solution that provides optimal condition values for equipment. As an AI solution that delivers optimal process conditions, its AI model offers real-time process condition values for quality prediction based on equipment data. This solution supports the foundation for a Digital Twin.

Key Features



Screen Examples



MATE-AI for TMS (Test Management System)



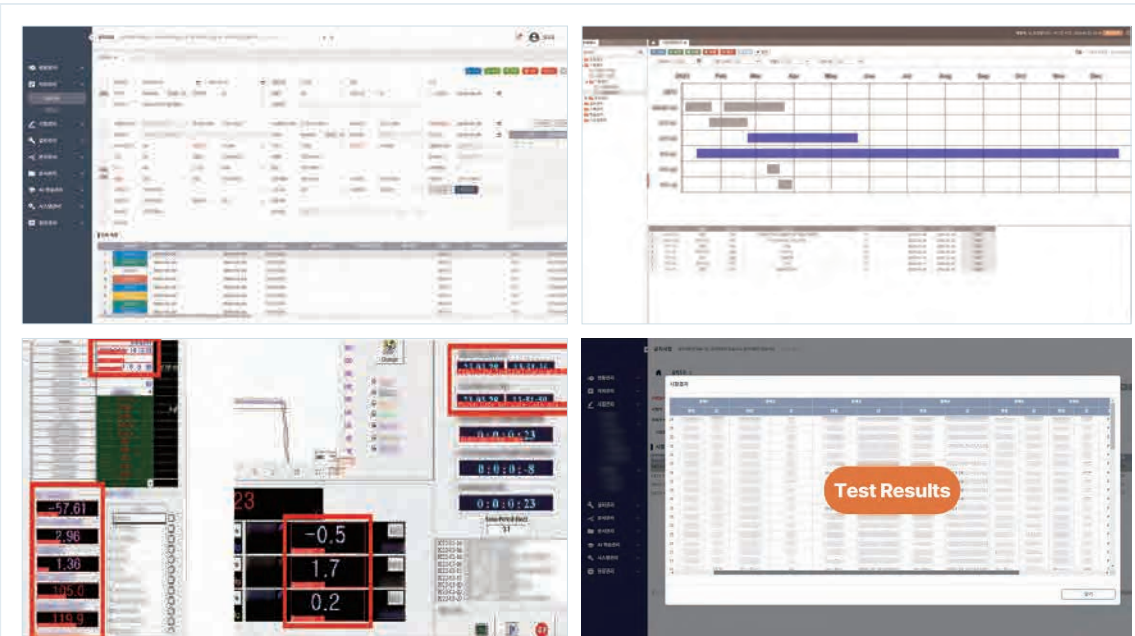
Product Overview

MATE-AI for TMS(Test Management System) enables AI-driven scheduling for comprehensive monitoring of testing processes. As a test management system, it delivers real-time monitoring of equipment utilization rate and operational performance based on AI-driven test planning. It also provides reliable test services through deep learning-based automatic performance aggregation and analysis.

Key Features



Screen Examples



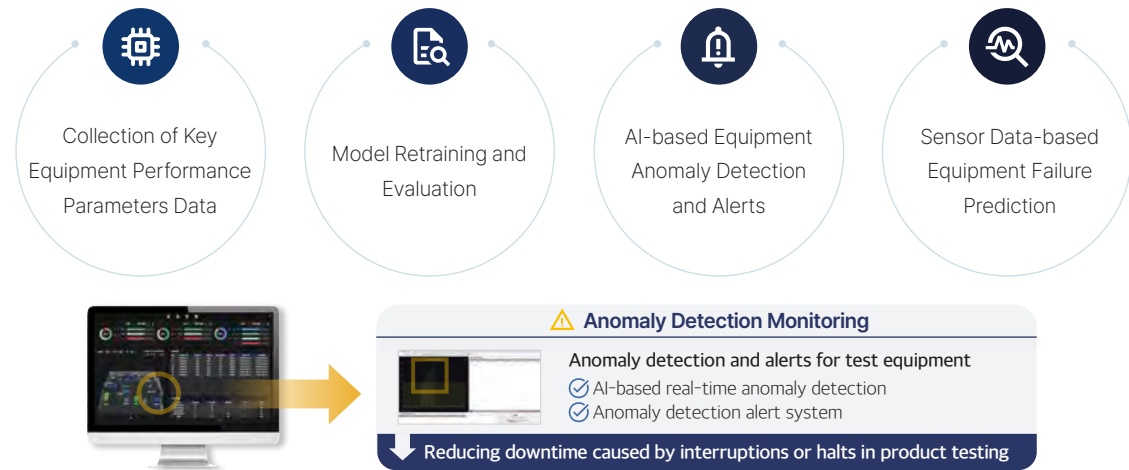
MATE-AI for AD (AI Solution for Equipment Anomaly Detection)



Product Overview

MATE-AI for AD(Anomaly Detection) detects real-time anomalies using AI and notifies operators. As an AI solution equipment anomaly detection, it detects and notifies in advance about equipment stoppages, failures, repairs, and replacements to prevent production delays. The system provides comprehensive management of equipment with a predictive alert system.

Key Features



MATE-CPS (Cyber-Physical System)



Product Overview

MATE-CPS(Cyber-Physical System) constructs a 3D-modeled virtual environment replicating real-world production sites. Based on real-time process data collected from the production site, it synchronizes the virtual site, visualizes and monitors the operational status, and sends alerts in the event of abnormalities, making it easier to manage manufacturing processes.

Key Features



Screen Examples

